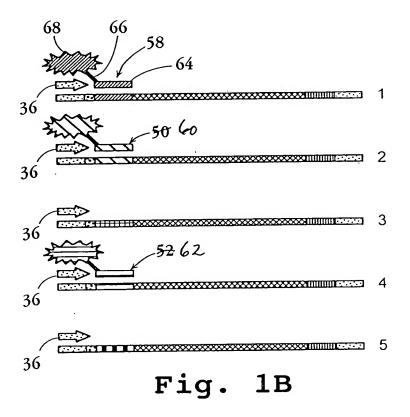


Fig. 1A



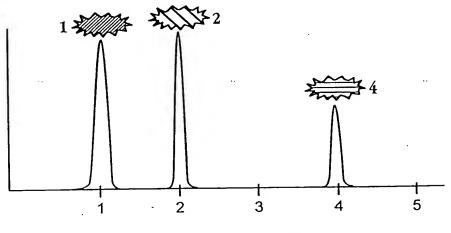


Fig. 1C

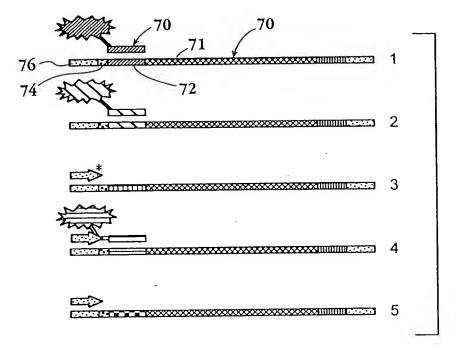


Fig. 2A

Endomeliase treatment

Tag Separation

Vad detection

Fig. 2B

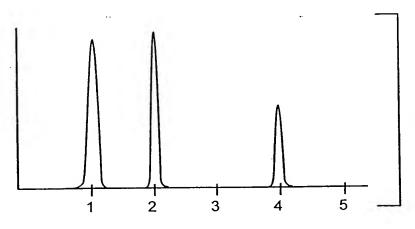
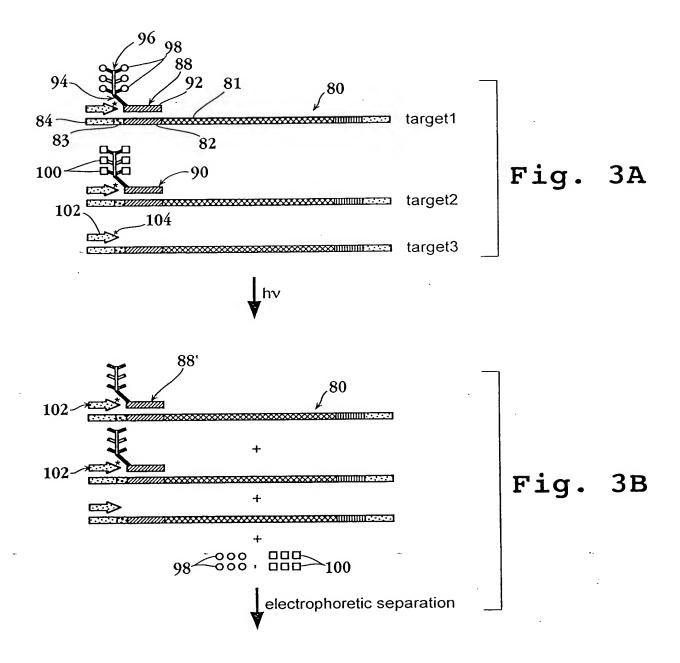
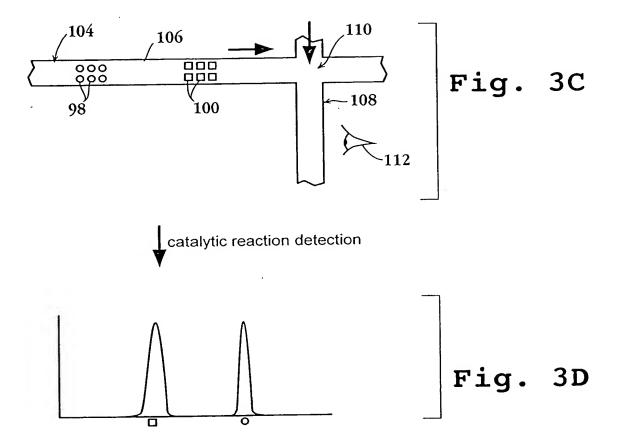


Fig. 2C





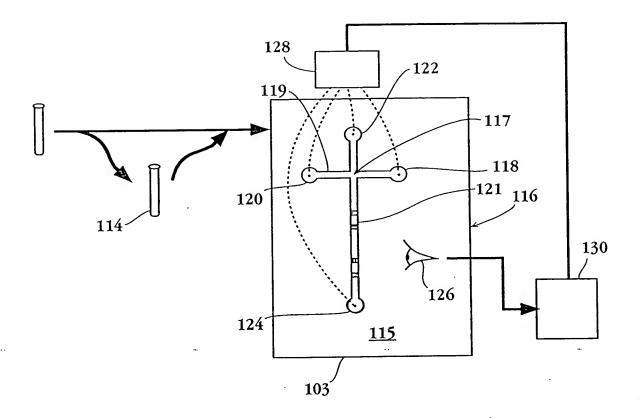


Fig. 4

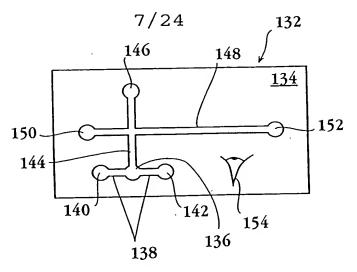


Fig. 5A

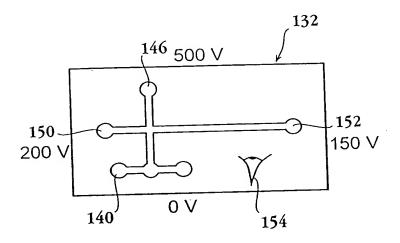


Fig. 5B

146 280 V

150
0 V

280 V

152
1000 V

Fig. 5C

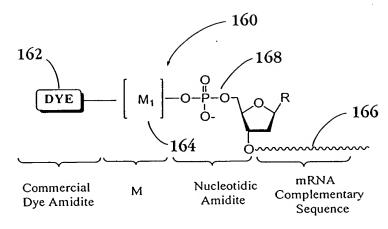


Fig. 6

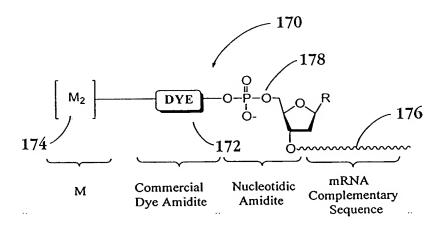
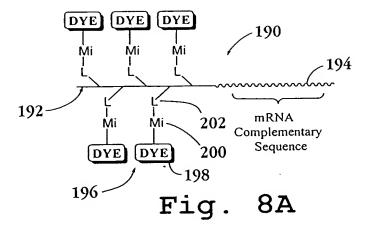


Fig. 7



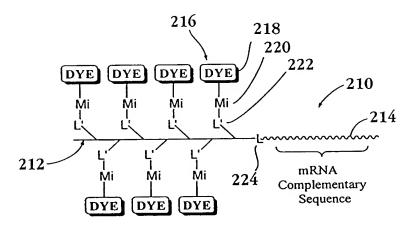


Fig. 8B

ACLA001 ACLA007 Fluorescein ACLA008 ACLA002 Fluorescein ACLA009 ACLA003 _Fluorescein ACLA004 ACLA010 _Fluorescein `(dT)₃dC ACLA005 ACLA011 Fluorescein ACLA006 ACLA012 _Fluorescein

Fig. 9A

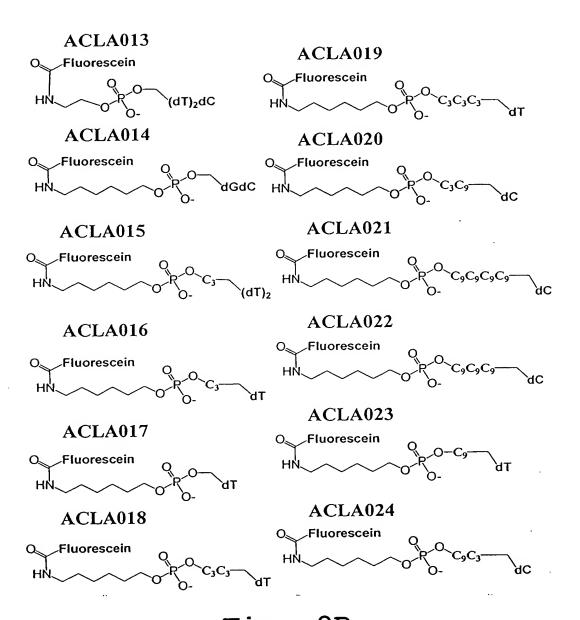


Fig. 9B

Fig. 9C

Fig. 9D

ACLA048 Fluorescein ACLA054 Fluorescein ACLA055 ACLA049 Fluorescein Fluorescein ACLA056 ACLA050 Fluorescein Fluorescein ACLA057 ACLA051 Fluorescein Fluorescein ACLA058 ACLA052 Fluorescein Fluorescein ACLA059 ACLA053 Fluorescein Fluorescein

Fig. 9E

ACLA060 ACLA065 Fluorescein Fluorescein ACLA061 ACLA066 Fluorescein Fluorescein, ACLA062 ACLA067 Fluorescein Fluorescein ACLA068 ACLA063 Fluorescein Fluorescein ACLA069 ACLA064 Fluorescein Fluorescein

Fig. 9F

Fig. 9G

Fig. 9H

ACLA089

Fluorescein
$$C_3C_3TC_3$$
 d T C_9 C_9 C_9

ACLA090

Fluorescein
$$C_3C_3C_3TC_3$$
 d T C_9 C_9 C_9

ACLA091

Fluorescein
$$C_{12}T$$
 d T C_{9} C_{9}

ACLA092

ACLA093

ACLA094

ACLA095

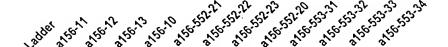
ACLA096

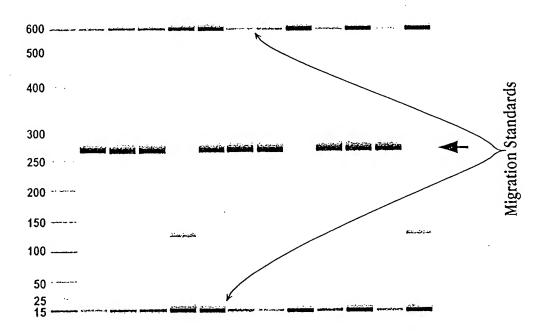
ACLA097

Fig. 9I

Fig. 9J

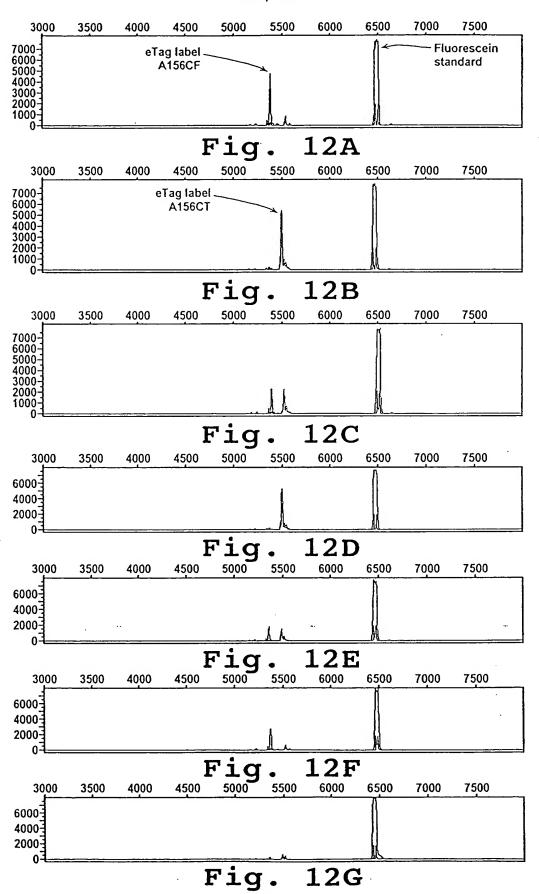
e-tag Reporter	Charge	Elution Time, min
O_Fluorescein		
HN () O-P-C ₃ C ₃ C ₃ C ₃ C ₃ -		12.1*
O _√ Fluorescein		
$\begin{array}{c} \text{HN} () & \text{O} \\ \text{O} & \text{P-O-C}_6 \text{C}_6 $	C ₆ C ₆ — -9	12.7
HN (-) O-P-O-C6C6C6C6	C ₆ — -8	12.8
O _N Fluorescein		
HN() O-P-O-C ₆ C ₆ C ₆ C ₆ C.	-7	13.1
O Fluorescein	dC	
O Fluorescein HN O P-O-C ₃ C ₃ C ₉ O Fluorescein	-6	13.0
O Fluorescein O P-O-C ₆ C ₆ C ₆ O-C ₆ C ₆ C ₆ O-C ₆ C ₆ C ₆ O-C ₆ C ₆ C ₆ C ₆ C ₆ O-C ₆ C ₆ C ₆ C ₆ C ₆ O-C ₆ C ₆	_6	13.4
5 O-	gC .	
O Fluorescein	-5	12.8*
HN () O-P-O-C ₃ C ₃	-3 C	12.0
O Fluorescein O Fluorescein HN O F-O C ₃ C ₉	-5	13.2*
O Fluorescein	C	
O Fluorescein HN () O P O C ₉ C ₉ O Fluorescein	-5	14.8
Orridorescent	С	
HN(+)^O-P-O-TTTdC	-6	17.3
OFFluorescein OFF-O-TTdC		
HN())O-P-O-TTdC	-5	17.0
O Fluorescein		
O Fluorescein HN O P-O-C ₉ dT	-4	15.2*
OFFluorescein OFF-O-TdC	-4	16.5
Fig. 10		
3		

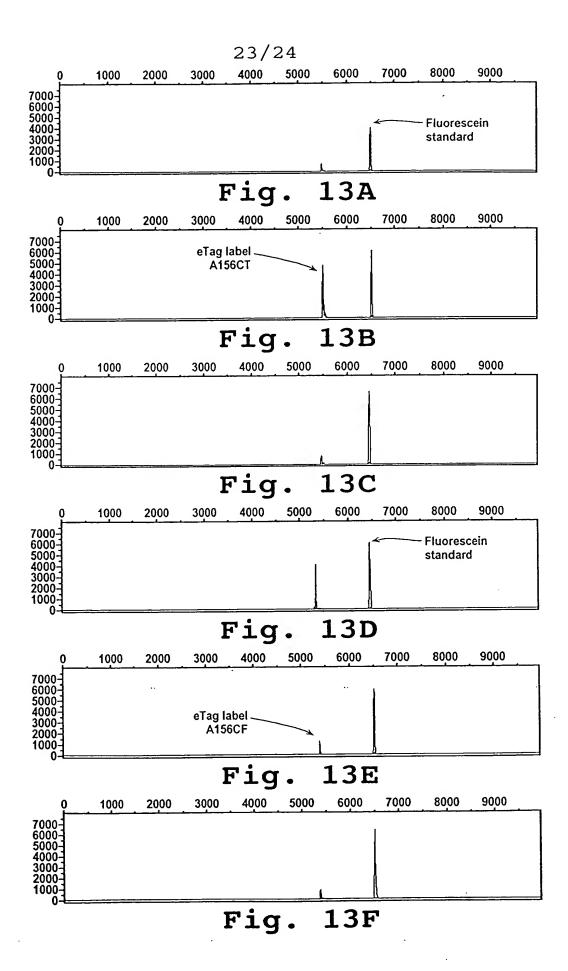




LL 1 2 3 4 5 6, 7 8 9 10 11 12.

Fig. 11





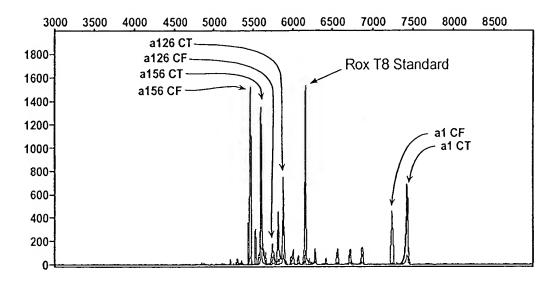


Fig. 14